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Substitute for form 1449A/PTO

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 6 Application Number 09/931,285 Filing Date August 16, 2001 First Named Inventor CHEE Group Art Unit Not Yet Assigned 1634 Examiner Name Not Yet Assigned Frank cu Attorney Docket Number A-70440/DJB/RMS/DCF

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document Number	Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
✓	1	4,200,110		Peterson et al.	4/1980	
✓	2	4,499,052		Fulwyler	2/1985	
✓	3	4,682,895		Costello	7/1987	
✓	4	4,785,814		Kane	11/1988	
✓	5	4,822,746		Walt	4/1989	
✓	6	4,824,789		Yafuso et al.	4/1989	
✓	7	4,999,306		Yafuso et al.	3/1991	
✓	8	5,002,867		Macevicz	3/1991	
✓	9	5,028,545		Soini	7/1991	
✓	10	5,105,305		Betzig et al.	4/1992	
✓	11	5,114,864		Walt	5/1992	
✓	12	5,132,242		Cheung	7/1992	
✓	13	5,143,853		Walt	9/1992	
✓	14	5,194,300		Cheung	3/1993	
✓	15	5,244,636		Walt et al.	9/1993	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Office ³	Number ⁴	Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁵
✓	16	EP	0 269 764	A1	Molecular Biosystems, Inc.	6/1988		
✓	17	EP	0 392 546	A2	Drmanac et al.	10/1990		
✓	18	EP	0 478 319	A1	Kabushiki Kaisha Toshiba	4/1992		
✓	19	EP	0 723 146	A1	SRI International	7/1996		
✓	20	WO	89/11101	A1	Dynal A.S.	11/1989		
✓	21	WO	93/02360	A1	Transmed Biotech Incorporated	2/1993		
✓	22	WO	96/03212	A1	Brenner	2/1996		
✓	23	WO	97/14028	A2	Luminex Corp.	4/1997		
✓	24	WO	97/14928	A1	Brint, N.	4/1997		
✓	25	WO	97/40385	A1	Scul, M.	10/1997		
✓	26	WO	98/40726	A1	Trustees of Tufts College	9/1998		

Examiner Signature Date Considered 10/10/2003

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/931,285
		Filing Date	August 16, 2001
		First Named Inventor	CHEE
		Group Art Unit	Not Yet Assigned 1634
		Examiner Name	Not Yet Assigned Frank Lu
Sheet	2	of	6
		Attorney Docket Number	A-70440/DJB/RMS/DCF

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
W	✓ 27	5,244,813		Walt et al.	9/1993	
	✓ 28	5,250,264		Walt et al.	10/1993	
	✓ 29	5,252,494		Walt	10/1993	
	✓ 30	5,254,477		Walt	10/1993	
	✓ 31	5,298,741		Walt et al.	3/1994	
	✓ 32	5,302,509		Cheeseman	4/1994	
	✓ 33	5,320,814		Walt et al.	6/1994	
	✓ 34	5,357,590		Auracher	10/1994	
	✓ 35	5,380,489		Sutton et al.	1/1995	
	✓ 36	5,435,724		Goodman et al.	7/1995	
	✓ 37	5,474,895		Ishii et al.	12/1995	
	✓ 38	5,481,629		Tabuchi	1/1996	
	✓ 39	5,494,798		Gerdt et al.	2/1996	
	✓ 40	5,496,997		Pope	3/1996	
	✓ 41	5,512,490		Walt et al.	4/1996	
	✓ 42	5,516,635		Ekins et al.	5/1996	
↓	✓ 43	5,565,324		Still et al.	10/1996	

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		Office ³	Number ⁴	Kind Code ² (if known)				
✓	44	WO	98/50782	A3	Trustees of Tufts College	11/1998		
✓	45	WO	98/53093	A1	Bioarray Solutions LLC	11/1998		
✓	46	WO	98/53300	A2	Lynx Therapeutics, Inc.	11/1998		
✓	47	WO	99/18434	A1	Trustees of Tufts College	4/1999		
✓	48	WO	99/60170	A1	Hyseq Inc.	11/1999		
✓	49	WO	99/67414	A1	Glaxo Group Ltd.	12/1999		
✓	50	WO	99/67641	A2	Illumina Inc.	12/1999		
✓	51	WO	00/04372	A1	Univ. of Texas	1/2000		
✓	52	WO	00/13004	A2	Trustees of Tufts College	3/2000		

Examiner Signature	<i>Frank Lu</i>	Date Considered	10/10/2003
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Complete if Known

Application Number	09/931,285
Filing Date	August 16, 2001
First Named Inventor	CHEE
Group Art Unit	Not Yet Assigned 1634
Examiner Name	Not Yet Assigned Frank U
Attorney Docket Number	A-70440/DJB/RMS/DCF

Sheet 3 of 6

U.S. PATENT DOCUMENTS

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		Number	Kind Code ² (if known)			
u✓	53	5,573,909		Singer et al.	11/1996	
✓	54	5,575,849		Honda et al.	11/1996	
✓	55	5,633,972		Walt et al.	5/1997	
✓	56	5,639,603		Dower et al.	6/1997	
✓	57	5,656,241		Seifert et al.	8/1997	
✓	58	5,690,894		Pinkel et al.	11/1997	
✓	59	5,814,524		Walt	10/1998	
✓	60	5,840,256		Demers et al.	11/1998	
✓	61	5,854,684		Stabile et al.	12/1998	
✓	62	5,863,708		Zanzucchi et al.	1/1999	
✓	63	5,888,723		Sutton et al.	3/1999	
✓	64	5,900,481		Lough et al.	5/1999	
✓	65	6,023,540		Walt et al.	2/2000	
✓	66	5,679,524		Nikiforov et al.	10/1997	
✓	67	5,856,083		Chelsky et al.	01/1999	
✓	68	5,858,732		Solomon et al.	01/1999	

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		Office ³	Number ⁴	Kind Code ² (if known)				
u✓	69	WO	00/16101	A2	Trustees of Tufts College	3/2000		
✓	70	WO	00/39587	A1	Illumina Inc.	7/2000		
✓	71	WO	00/47996	A2	Illumina Inc.	8/2000		
✓	72	WO	00/48000	A1	Illumina Inc.	9/2000		
✓	73	WO	00/63437	A2	Illumina Inc.	10/2000		
✓	74	WO	00/71243	A1	Illumina Inc.	11/2000		
✓	75	WO	00/71995	A2	Illumina Inc.	11/2000		
✓	76	WO	00/75373	A2	Illumina Inc.	12/2000		

Examiner Signature	<i>Frank U</i>	Date Considered	10/10/2003
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		Filing Date	August 16, 2001
		First Named Inventor	CHEE
		Group Art Unit	Not Yet Assigned 1634
		Examiner Name	Not Yet Assigned Frank W
Sheet 4 of 6	Attorney Docket Number	A-70440/DJB/RMS/DCF	

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		Number	Kind Code ² (if known)			
u✓	77	6,013,456		Akgavan-Tafti	01/2000	
✓	78	6,051,380		Sosnowski et al.	04/2000	
✓	79	6,110,678		Weisburg et al.	08/2000	
✓	80	6,172,218	B1	Brenner	01/2001	
✓	81	6,083,763		Balch	07/2000	
✓	82	5,494,810		Barany et al.	02/1996	
✓	83	5,830,711		Barany et al.	11/1998	
✓	84	6,027,889		Barany et al.	02/2000	
✓	85	6,054,564		Barany et al.	0/2000	
✓	86	6,251,639	B1	Kurn	06/2001	
✓	87	6,268,148	B1	Barany et al.	07/2001	
				X		

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		Office ³	Number ⁴	Kind Code ² (if known)			
u✓	88	WO	98/13523	A1	Pyrose Quencing AB	04/1998	
✓	89	WO	93/25563	A1	City of Hope	12/1993	
✓	90	WO	97/31256	A2	Cornell Research Foundation	08/1997	
✓	91	WO	00/58516	A2	Whitehead Institute for Biomedical Research	10/2000	
✓	92	WO	00/71992	A1	Illumina Inc.	11/2000	
					X		

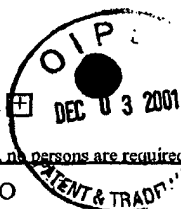
Examiner Signature	<i>Zahn</i>	Date Considered	10/10/2003
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Sheet	5	of	6
		Attorney Docket Number	A-70440/DJB/RMS/DCF

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
u ✓	93	Abel et al., "Fiber-Optic Evanescent Wave Biosensor for the Detection of Oligonucleotides," Anal. Chem. 68:2905-2912 (1996).	✓
✓	94	Anonymous, "Microsphere Selection Guide," Bandg Laboratories, (Fisher, In) September 1998.	✓
✓	95	Anonymous, "Fluorescent Microspheres," Tech. Note 19, Bang Laboratories, (Fishers, In) February 1997.	✓
✓	96	Bangs, L.B., "Immunological Applications of Microspheres," The Latex Course, Bangs Laboratories (Carmel, IN) April 1996.	✓
✓	97	Barnard et al., "A Fibre-Optic Chemical Sensor with Discrete Sensing Sites," Nature, 353:338-340 (September 1991).	✓
✓	98	Chen et al., "A Microsphere-Based Assay for Multiplexed Single Nucleotide Polymorphism Analysis Using Single Base Chain Extension," Genome Research, 10(4):549-557 (2000).	✓
✓	99	Czarnik, "Illuminating the SNP Genomic Code," Modern Drug Discovery, 1(2): 49-55 (1998).	✓
✓	100	Drmanac, R. et al., "Sequencing by Oligonucleotide Hybridization: A Promising Framework in Decoding of the Genome Program," The First International Conference on Electrophoresis, Supercomputing and the Human Genome, Proceeding os th April 10-13, 1990 Conference at Florida State University. Ed. C. Cantor and H. Lim.	✓
✓	101	Drmanac, R. et al., "Prospects for a Miniaturized, Simplified and Frugal Human Genome Project," Scientia Yugoslavica, 16(1-2):97-107 (1990).	✓
✓	102	Drmanac, R. et al., "Sequencing by Hybridization (SBH) with Oligonucleotide Probes as an Integral Approach for the Analysis of Complex Genomes," International Journal of Genome Research, 1(1):59-79 (1992).	✓
✓	103	Drmanac, R. et al., "Sequencing by Hybridization," Automated DNA Sequencing and Analysis, ed. M. Adams, C. Fields and J. Venter. (1994).	✓
✓	104	Ferguson et al., "A Fiber-Optic DNA Biosensor Microarray for the Analysis of Gene Expression," Nature Biotechnology, 14:1681-1684 (1996).	✓
✓	105	Fuh et al., "Single Fibre Optic Fluorescence pH Probe," Analyst, 112:1159-1163 (1987).	✓
✓	106	Healey et al., "Improved Fiber-Optic Chemical Sensor for Penicillin," Anal. Chem. 67(24):4471-4476 (1995).	✓
✓	107	Healey et al., "Development of a Penicillin Biosensor Using a Single Optical Imaging Fiber," SPIE Proc. 2388:568-573 (1995).	✓
✓	108	Healey et al., "Fiberoptic DNA Sensor Array Capable of Detecting Point Mutations," Analytical Biochemistry, 251:270-279 (1997).	✓
✓	109	Hirschfeld et al., "Laser-Fiber-Optic "Optrode" for Real Time In Vivo Blood Carbon Dioxide Level Monitoring," Journal of Lightwave Technology, LT-5(7):1027-1033 (1987).	✓
✓	110	Iannone et al., "Multiplexed Single Nucleotide Polymorphism Genotyping by Oligonucleotide Ligation and Flow Cytometry," Cytometry, 39:131-140 (2000).	✓

Examiner Signature	<i>Frank Lu</i>	Date Considered	10/16/2003
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Sheet	6	of	6														

[illegible]

Examiner Signature	<i>[Signature]</i>	Date Considered	10/10/2003
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